

 LEVEL MASTER

**LPG**

**Tank Monitoring System**



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**MUSASINO CO., LTD.**

# Musasino LPG Tank Monitoring System

## (LPG Fuel Tank / LPG Cargo Tank)

Building on the experience of Musasino CTMS, we have developed a radar type level gauge using a one-inch pipe for gas fuel monitoring systems.

Musasino offers a new, high accuracy and high performance level gauge for LPG at a competitive price to help meet tightening environmental regulations.

Musasino LPG Tank Monitoring System's configuration complies with IGF, IGC rules.

### Easy-to-Maintain All-in-One Structure

The level gauge, temperature gauge (max. 3 points), and pressure gauge are built-in to the same housing. The compact size saves space.

Each measurement unit is separate inside the electrical housing, enabling easy maintenance without having to open the tank.

In addition, dual level measurement (primary / secondary) is possible.

### The self-correction function provides stable operation over the long-term

Developed from Musasino's extensive experience in marine use radar type level gauges and technical experience, this one-inch pipe radar type level gauge includes a self-calibration function.

Measurements are automatically calibrated for temperature variations.

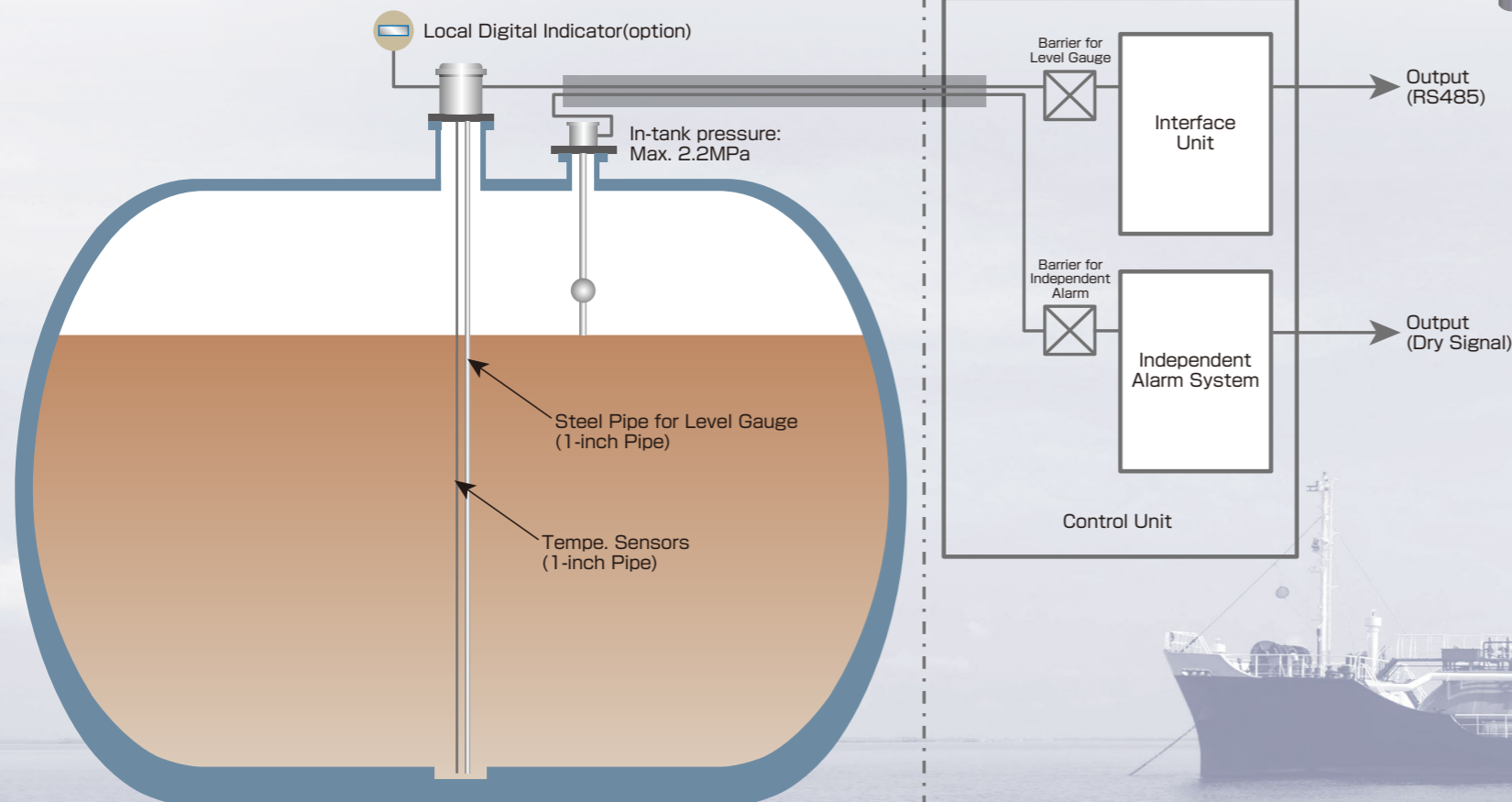
It is possible to maintain operation with high accuracy and stable level measurement.

### Outfitting Benefits of a One-inch Pipe

Uses a one-inch pipe.

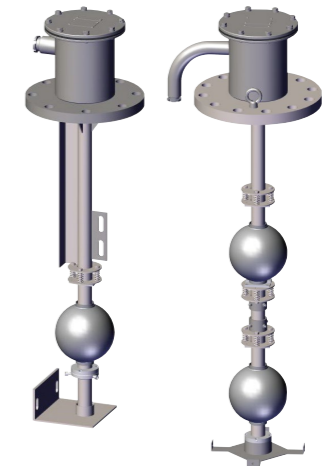
The light weight, 80A flange, and small opening reduce the outfitting work.

### 1-inch Pipe Radar Level Gauge Deck Equipment



### Level Gauge

Application	: LPG
Measurement Method	: Frequency Modulated Continuous Wave (FMCW) Radar
Measurement Range	: 0.5m ~ 22m
Accuracy	: ±10mm
Intrinsically Safe Standard	: Intrinsically Safe Explosion-proof Type Ex ia IIC T5
Protection Class	: IP66
Material	: SUS304
Flange Size	: ANSI 80A
Pipe Diameter	: 1 inch



### Independent Alarm Unit [LSA]

Application	: LPG
Measurement Method	: Magnetic Float type
Accuracy	: ±5mm
Intrinsically Safe Standard	: Intrinsically Safe Explosion-proof Type Ex ia IIC T6
Protection Class	: IP66
Material	: SUS316 (Housing, Pipe), TP270 (Float)
Flange Size	: 150A
Alarm Point	: 1point/2point

### Temperature Sensor

Measurement Method	: PT-100
Measurement Range	: -50 ~ 100°C
Accuracy	: ±1.0°C

### Pressure Sensor

Measurement Method	: Strain Gauge Type Diaphragm Pressure Gauge
Measurement Range	: 0~2.2MPa
Accuracy	: ±1.0%FS
Material (Diaphragm)	: SUS316L

